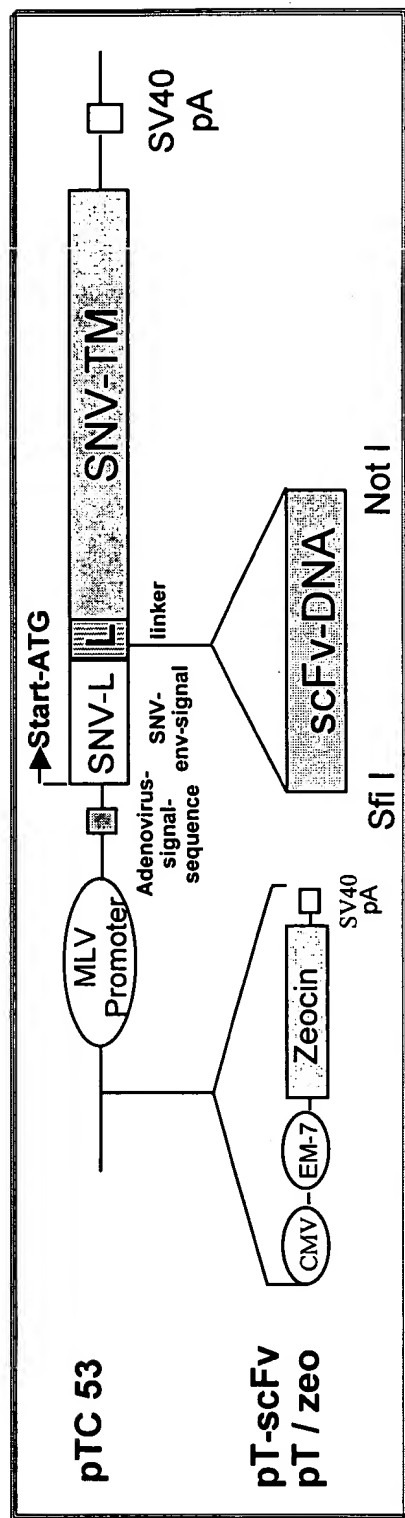


# Transduction of T-cells with [SNV-scFv-Env] vectors

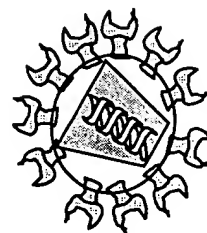


Transfection



Packaging cells

DSH-CXL  
pCXL (lacZ)  
pRD136 (gag/pol)  
pRD34(env)



Transduction of  
target cells  
(T-cells)

Fig. 1

# Production of a SNV-scFv-Env vector library

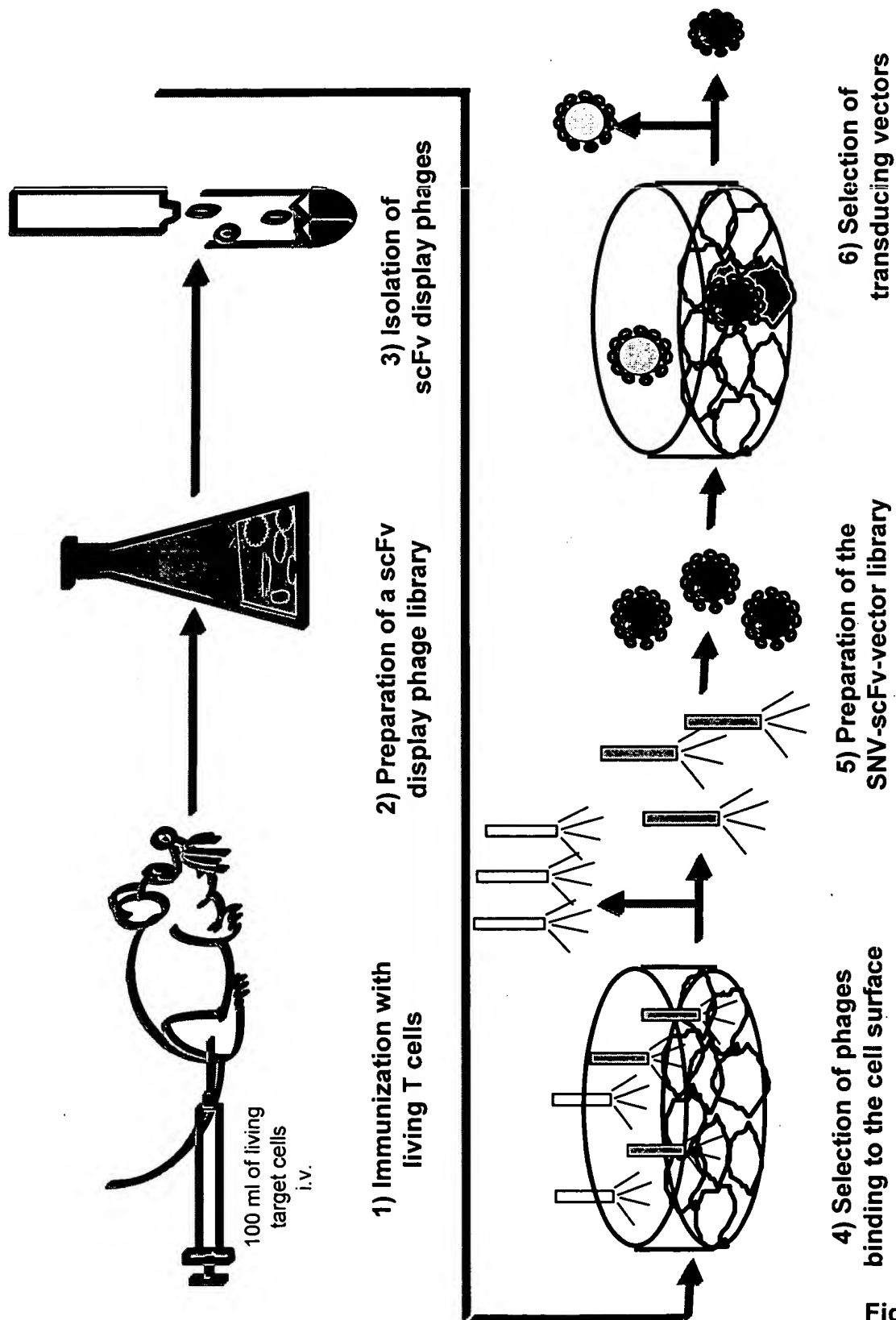


Fig. 2

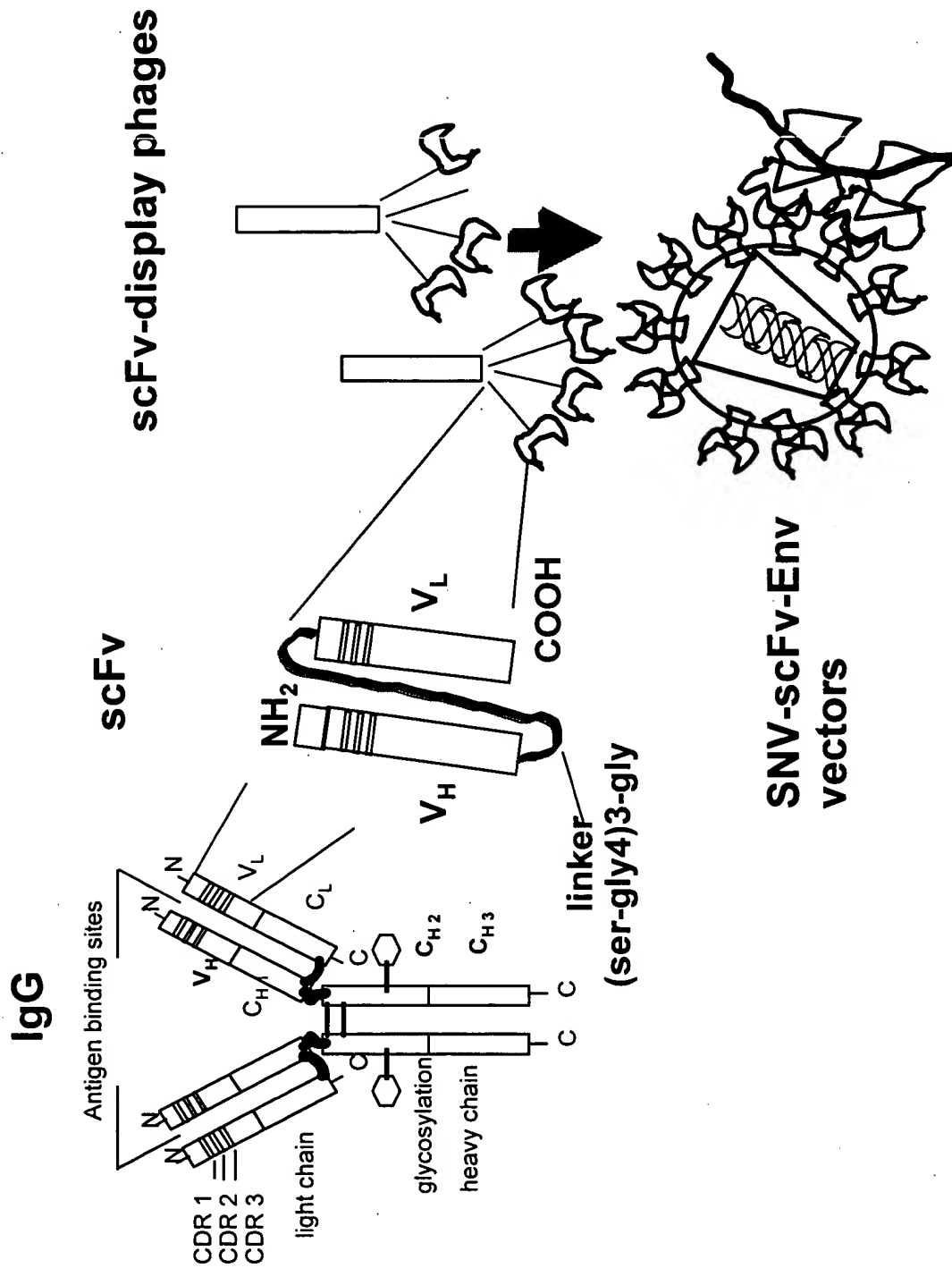


Fig. 3

PTC53.SEQ [1 to 4776] -> Genes

DNA sequence 4776 b.p. GAATTCCTGATC ... ACCAGGGCTAGT linear

```

1 GAATTCCTGATCAGGCGGATGATTAATTAAGATTATTAGTCTCCAGAAAGAGCGGA ATG AAA GAC CCC ACC TGT AGG TTT GGC 90
10 K L A * M E K Y I T E N R E V Q I K V R 16
171 AAC AGA TGG AAC AGC TGA AT ATG GGC CAA ACA GGA TAT CTG TGG TAA GCAGTTCTCTCCCGGCTCAGCGGCAAGACAG ATG 253
17 N R W N S * M G Q T G Y L W * M 1
254 GAA CAG CTG AAT ATG GGC CAA ACA GGA TAT CTG TGG TAA GCAGTTCTCTCCCGGCTCAGCGGCAAGACAG ATG GTC CCC 334
2 E Q L N M G Q T G Y L W * M V P 3
335 AGA TGC GGT CCA GGC CTC AGC AGT TTC TAG AGAAGCTTCAG ATG TTT CCA GGG TGC CCC AAG GAC CTG AAA TGA CCTT 412
4 R C G P A L S S F * M F P G C P K D L K * 11
413 GTCCCTTATTGAACTAAGCAATCAGTTGGCTTCCTGCTTCGCGGCTTCCTGCTTCGCGGCTTCCTGCTTCGCGGCTTCCTGCTTCGCGG 512
513 GCGCAGTCTCCGATTGCTAGTCCGCGGCTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 612
613 GCGAAACCGCTCGGCTCCGAAAGGCTACTCCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 712
713 GTACAGTCCGAAAGGCTAGCGCTGACGACCGTCCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 808
1 3
809 TACCGGCTCTTCTGAGAGCGG ATG CTC GAG GTG AGG TGT GGC AGG CTT GAG ATC TGG CCA TAC ACT TGA GTGACA ATG ACA 888
1 M V E V R C G R L E I W P Y T * M T 2

```

Fig. 4 (page 1 of 6)







1655 CTC GCG TGC ATT ATG AAG ACC CTG ACT GCG ATT ATA CAT GAC AAA ATT CAG GCA GTA AAA TCC TAG CACTAGTC 1731  
211 L G P C I M K T L T R I I H D K I Q A V K S \* 233

1732 CCACAGTACAGCCACTGCCACAGAG ATG GAT ACC CTA GCG GTC CGA TGG TCT AAG AAT TCT CGA GTC TAA GATCGATCGAAT 1815  
1 M D T L G V R W S K N S R V \* 15

1816 TCTTAGGTCA ATG ATT TGA CCAGA ATG TAC AAG AGC AGT GCG GAA TGT GCG AGG GGC TTA CGA AGG CCT TAA GTGACTA 1894  
1 M I \* M Y K S S G E C G R G L R R P \* 16

1895 GGTACCCGATCCAGAC ATG ATA AGA TAC ATT GAT GAG TTT GGA CAA ACC ACA ACT AGA ATG CAG TGA AAAAA ATG CTT 1972  
1 M I R Y I D E F G Q T T R M Q \* M L 2

1973 TAT TTG TGA AATTGTG ATG CTA TTG CTT TAT TTG TAA CCATTATAGCTGCTATTAACAAAGTTAACAACAAATTCCTTCTT 2060  
3 Y L \* M L L L Y L \* 7

2061 ATG TTT CAG GTT CAG GCG GAG GTG TGG GAG GTT TTT TAA AGCAAGTAAACCTCTTACAAATCAGCTGGCAAGCTAGATCTAGCTT 2147  
1 M F Q V Q G E V W E V F \* 13

2148 GCGTAATC ATG GTC ATA GCT GTT TCC TGT GTG AAA TTG TTA TCC GCT CAC AAT TCC ACA CAA CAT ACG AGC CCG 2222  
1 M V I A V S C V K L L S A H N S T Q H T S R 22

2223 AAG CAT AAA GTG TAA AGCTTGGGTGGCTA ATG AGT GAG CTA ACT CAC ATT AAT TCC GTT GCG CTC ACT GCG CCG TTT 2300  
23 K H K V \* M S E L T H I N C V A L T A R F 16

Fig. 4 (page 3 of 6)

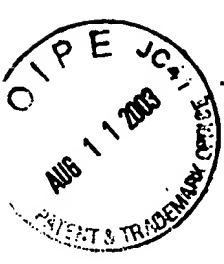
[illegible]

**Fig. 4** (page 4 of 6)

[illegible]

Fig. 4 (page 5 of 6)





4122 AGGAGGCAA ATG CCG CAA AAA AGG GAA TAA GGGGACCGGAA ATG TTG AAT ACT CAT ACT CTT OCT TTT TCA ATA 4199  
1 M P Q K R E \* M L N T H T L P F S I 11

4200 TTA TTG AAG CAT TTA TCA GCG TTA TTG TCT CAT GAG CCG ATA CAT ATT TGA ATG TAT TTA GAA AAA TAA ACAATA 4275  
12 L L K H L S G L L S H E R I H I \* M Y L E K \* 6

4276 GGGTTCCGGACATTTCCCGGAAAGTCCACCTGACGTCCTAAGAAACATTATATC ATG ACA TTA ACC TAT AAA AAT AGG CGT ATC 4365  
1 M T L T Y K N R R I 10

4366 ACG AGG OCC TTT GGT CTC GCG CCG ATG CCG GAA AAC CTC TGA CAC ATG CAG CTC CCG GAG ACG GTC 4440  
11 T R P F R L A R F G D D G E N L \* M Q L P E T V 7

4441 ACA GGT TGT CTG TAA GCGG ATG CCG GGA GCA GAC AAG CCG GTC AGG CCG GGT CAG CCG GTG TTG CCG GGT GTC GCG 4516  
8 T A C L \* M P G A D K P V R A R Q R V L A G V G 19

4517 GGT GGC TTA ACT ATG CCG CAT CAG AGC AGA TTG TAC TCA GAGTCCACCAT ATG CCG TGT GAA ATA CCG CAC AGA TGC 4593  
20 A G L T M R H Q S R L Y \* M R C E I P H R C 9

4594 GTA AGG AGA AAA TAC CCG ATC AGG CCG CAT TCG CCA TTC AGG CTG CCG AAC TGT TCG GAA GCG CCA TCG GTG CCG 4668  
10 V R R K Y R I R R H S P F R L R N C W E G R S V R 34

4669 GGC TCT TCG CTA TTA CCG CAG CTG GCG AAA GCG GGA TGT GGT GCA AGS CCA TTA AGT TGG GTA ACG CCA GCG TTT 4743  
35 A S S L L R Q L A K G G C A A R R L S W V T P G F 59

4744 TCC CAG TCA CGA GGT TGT AAA ACG ACG GGC AGT 4776  
60 S Q S R R C K T T A S 70

Fig. 4 (page 6 of 6)